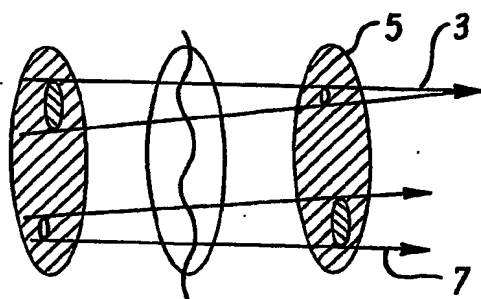
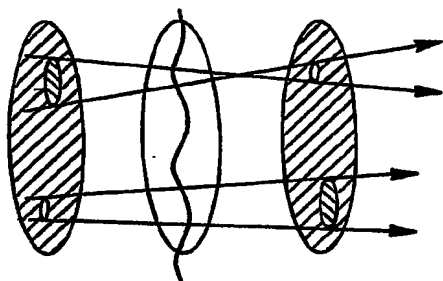


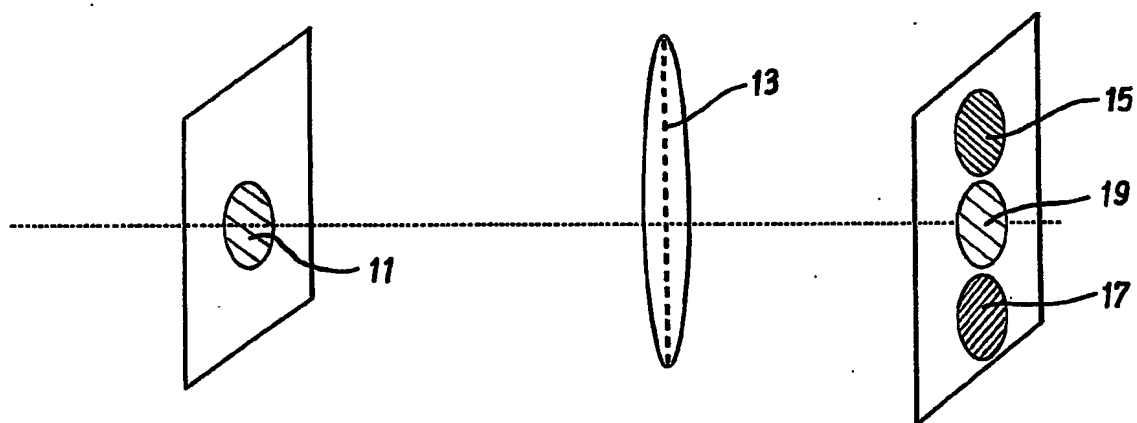
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**Fig. 1a**



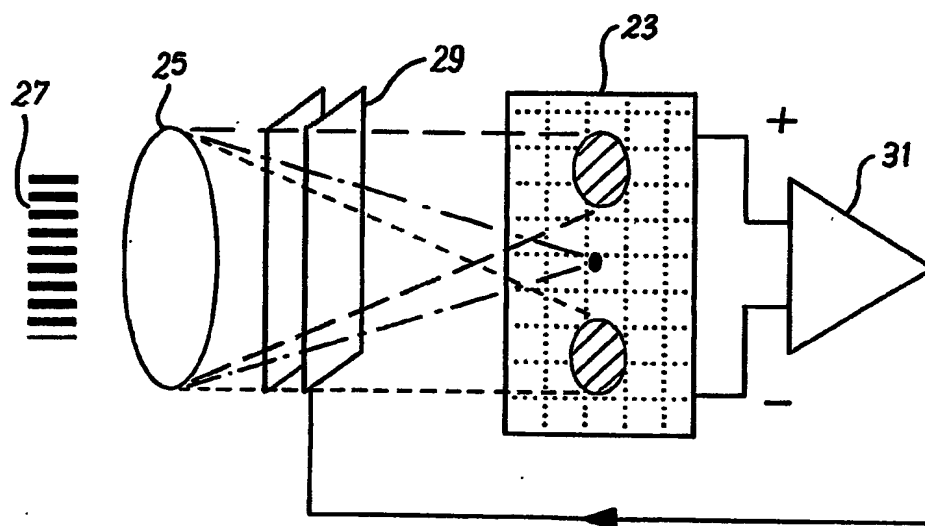
**Fig. 1b**



**Fig. 2**

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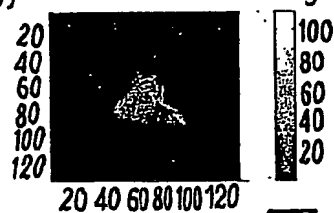
**FIG. 3**

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Original signal phase

Fig. 4a

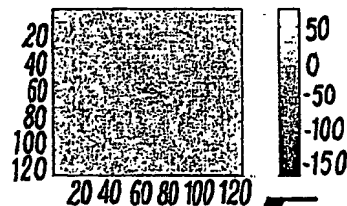
+1 diffraction order intensity

Fig. 4b

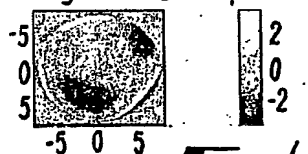
-1 diffraction order intensity

Fig. 4c

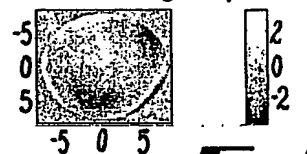
difference between +1 and -1 order intensity

Fig. 4d

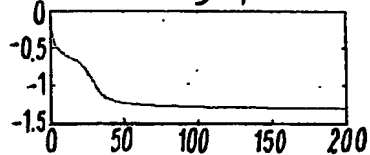
Original signal phase

Fig. 9a

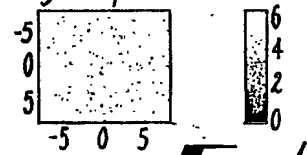
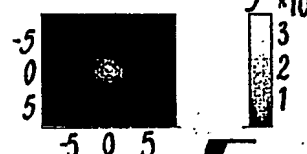
Retrieved signal phase

Fig. 9b

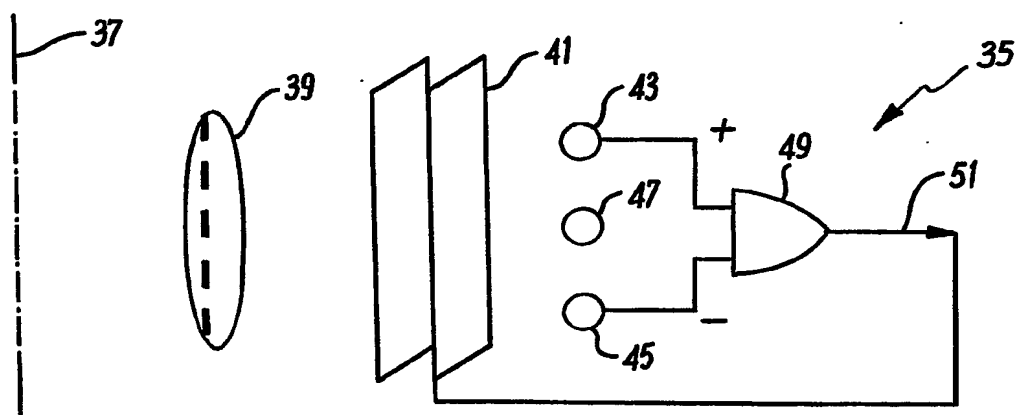
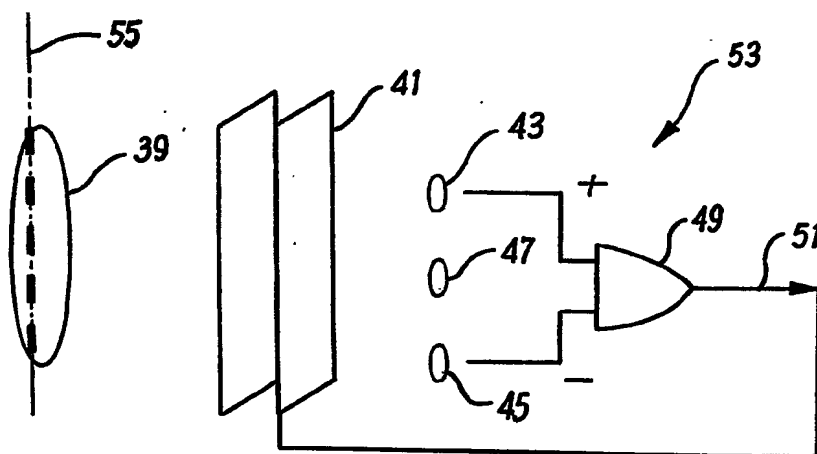
Error graph

Fig. 9c

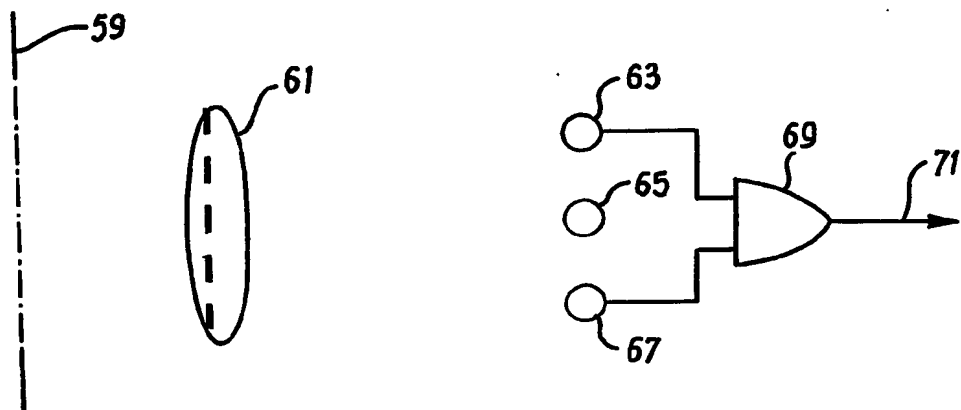
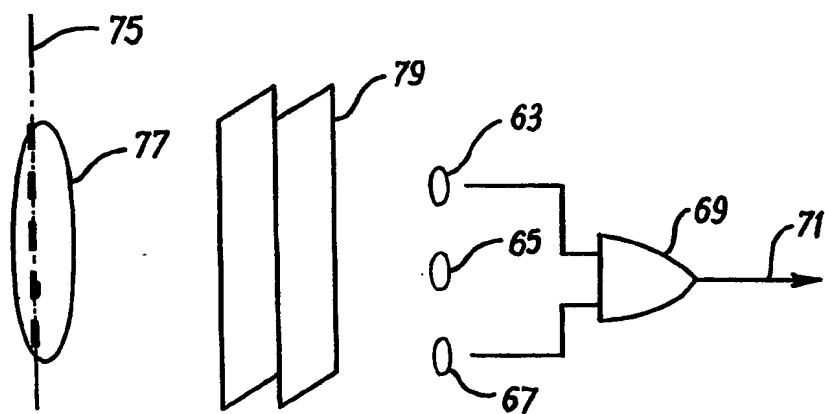
difference between original phase and retrieval phase

Fig. 9d+1 order Intensity  $\times 10^4$ Fig. 9e-1 order intensity  $\times 10^4$ Fig. 9f

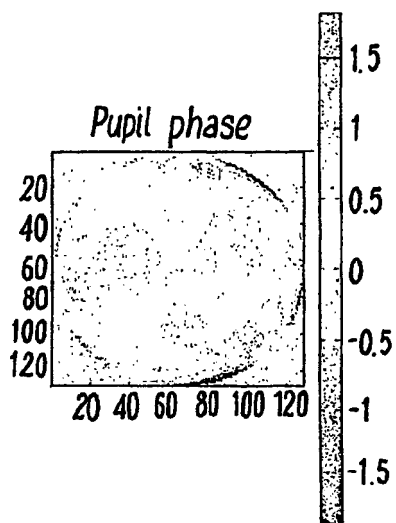
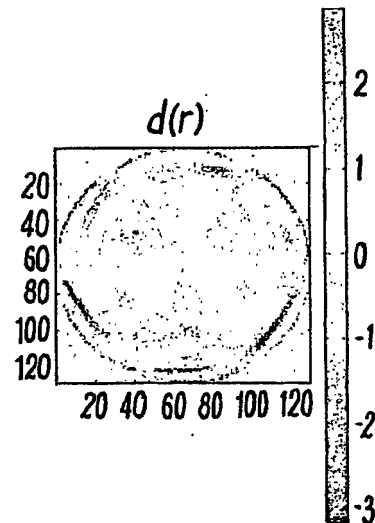
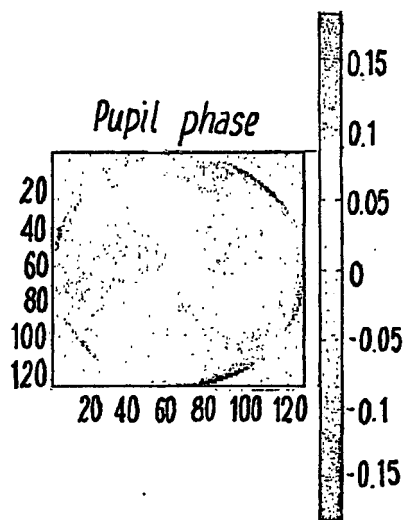
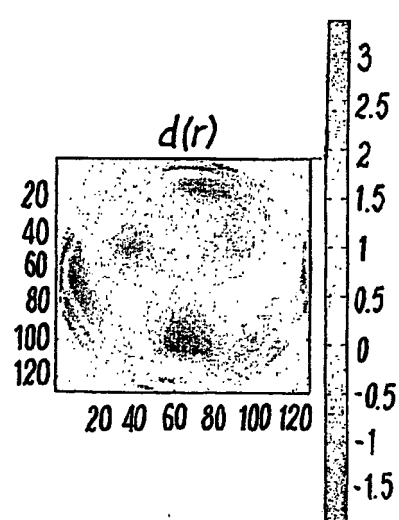
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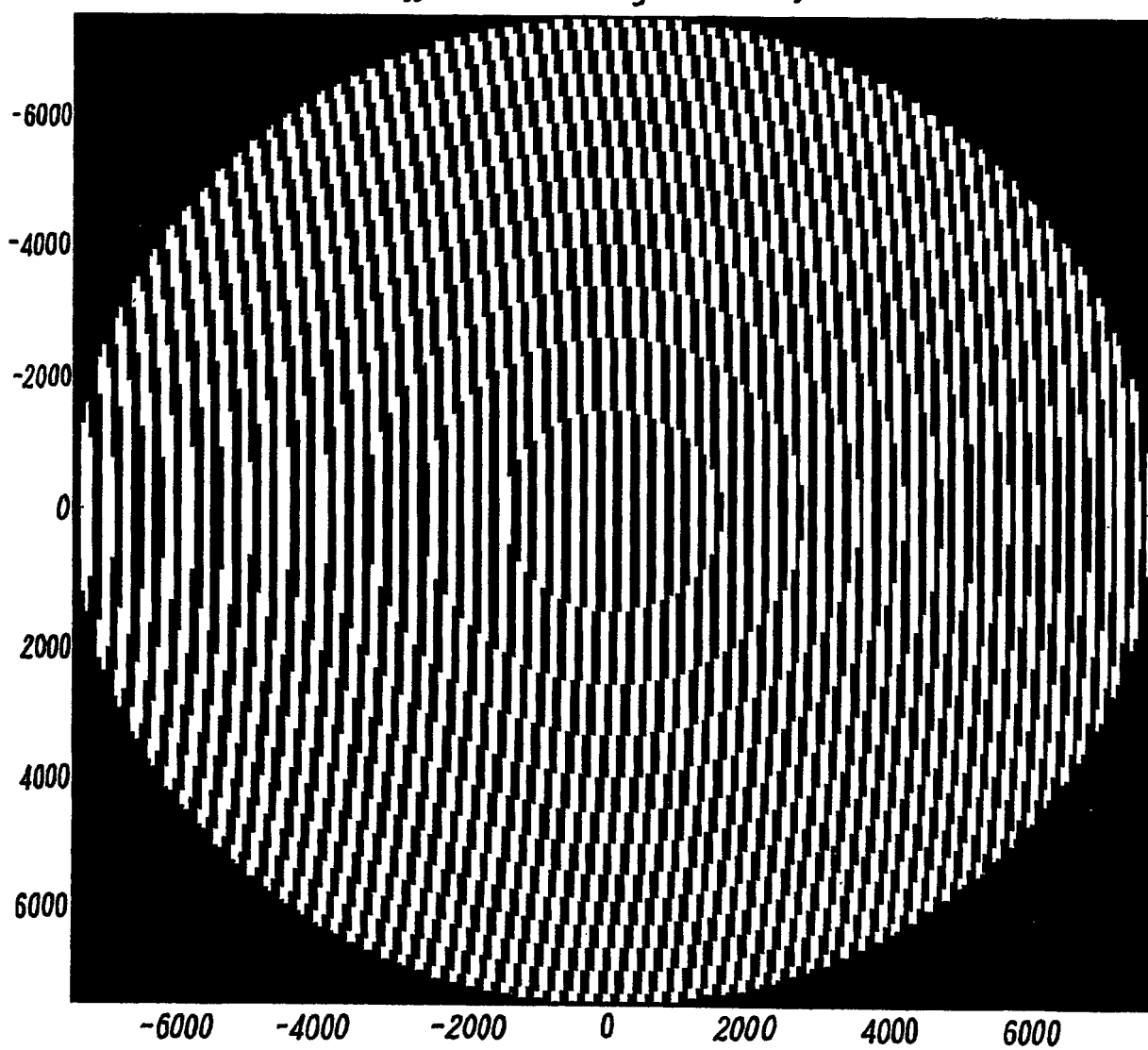
**Fig. 5****Fig. 6**

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**FIG. 7****FIG. 8**

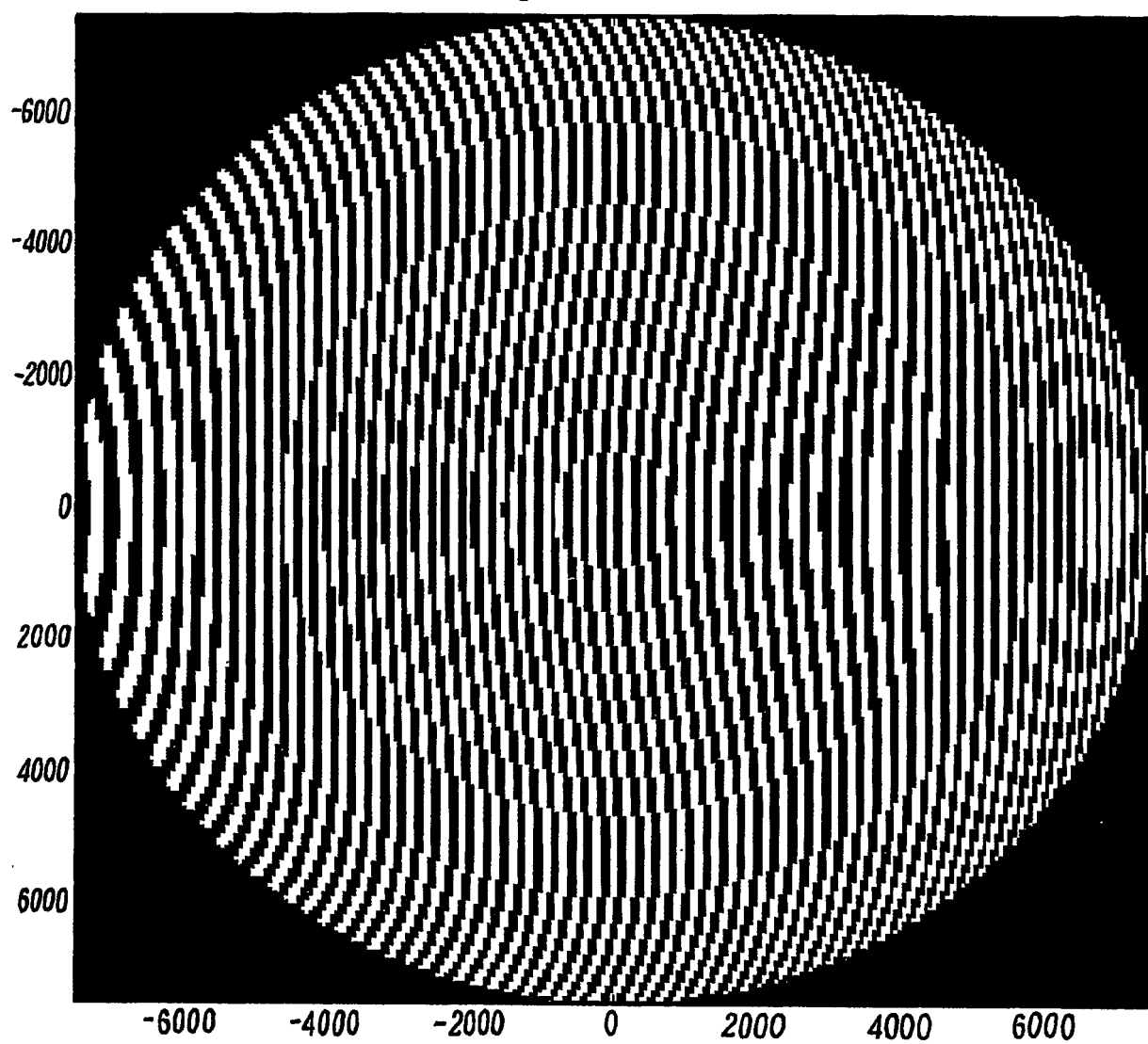
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**FIG. 10(a)(i)****FIG. 10(a)(ii)****FIG. 10(b)(i)****FIG. 10(b)(ii)**

$7/9$ *Diffraction Grating with Defocus*

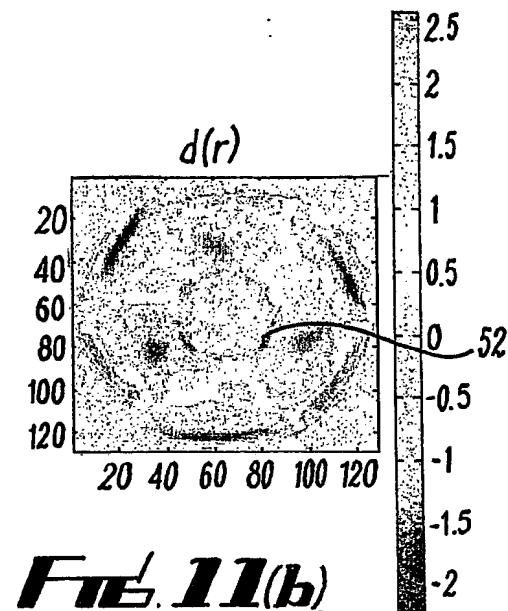
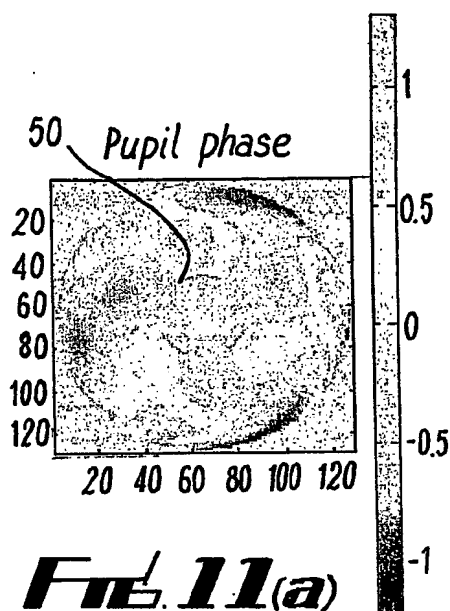
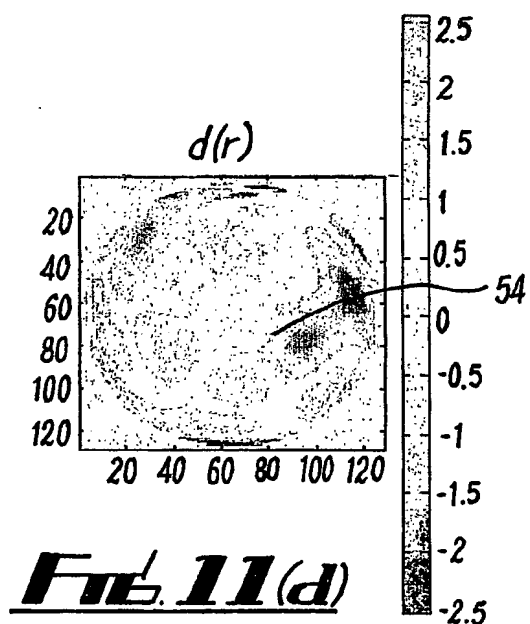
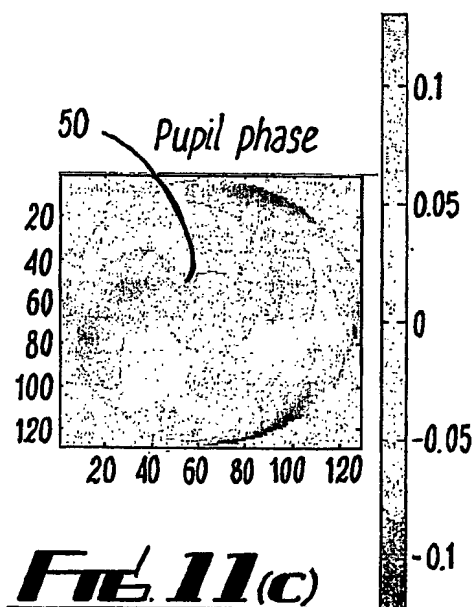
**FIG. 10(a)(iii)**

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*Diffraction Grating with Spherical Aberration***FIG. 10(b)(iii)**



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*annular pupils**1) Defocus ( $2 \cdot r^2$ , circular pupil)**Spherical ( $6 \cdot r^4$ , annular pupil)*

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